Stefano Menegatti

List of Publications by Year in descending order

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68 papers	1,420 citations	304743 22 h-index	395702 33 g-index
74 all docs	74 docs citations	74 times ranked	1399 citing authors

#	Article	IF	Citations
1	Self-healing and repair of fabrics: A comprehensive review of the application toolkit. Materials Today, 2022, 54, 90-109.	14.2	14
2	Isolation of Single-Domain Antibodies to Transmembrane Proteins Using Magnetized Yeast Cell Targets. Methods in Molecular Biology, 2022, 2446, 95-119.	0.9	0
3	De novo discovery of peptide-based affinity ligands for the fab fragment of human immunoglobulin G. Journal of Chromatography A, 2022, 1669, 462941.	3.7	13
4	Towards continuous mAb purification: Clearance of host cell proteins from CHO cell culture harvests via â€œflowâ€through affinity chromatographyâ€•using peptideâ€based adsorbents. Biotechnology and Bioengineering, 2022, 119, 1873-1889.	3.3	14
5	In Silico Identification and Experimental Validation of Peptide-Based Inhibitors Targeting Clostridium difficile Toxin A. ACS Chemical Biology, 2022, 17, 118-128.	3.4	9
6	Resorbable elastomers for implantable medical devices: highlights and applications. Polymer International, 2022, 71, 552-561.	3.1	9
7	Discovery of Cyclic Peptide Binders from Chemically Constrained Yeast Display Libraries. Methods in Molecular Biology, 2022, 2491, 387-415.	0.9	0
8	Removal of host cell proteins from cell culture fluids by weak partitioning chromatography using peptide-based adsorbents. Separation and Purification Technology, 2021, 257, 117890.	7.9	9
9	Synthesis, structure, and function of internally functionalized dendrimers. Journal of Polymer Science, 2021, 59, 10-28.	3.8	22
10	Peptides and pseudopeptide ligands: a powerful toolbox for the affinity purification of current and next-generation biotherapeutics. Journal of Chromatography A, 2021, 1635, 461632.	3.7	15
11	Development of Peptide Ligands for Targeted Capture of Host Cell Proteins from Cell Culture Production Harvests. Methods in Molecular Biology, 2021, 2261, 489-506.	0.9	4
12	Screening of Yeast Display Libraries of Enzymatically Treated Peptides to Discover Macrocyclic Peptide Ligands. International Journal of Molecular Sciences, 2021, 22, 1634.	4.1	14
13	Dual-Responsive Microgels for Structural Repair and Recovery of Nonwoven Membranes for Liquid Filtration. ACS Applied Polymer Materials, 2021, 3, 1508-1517.	4.4	5
14	Synthetic Platelet Microgels Containing Fibrin Knob B Mimetic Motifs Enhance Clotting Responses. Advanced Therapeutics, 2021, 4, 2100010.	3.2	8
15	Engineering Next Generation Cyclized Peptide Ligands for Lightâ€Controlled Capture and Release of Therapeutic Proteins. Advanced Functional Materials, 2021, 31, 2101410.	14.9	15
16	Ultrasoundâ€Powered Implants: A Critical Review of Piezoelectric Material Selection and Applications. Advanced Healthcare Materials, 2021, 10, e2100986.	7.6	27
17	Surfaceâ€Bound Microgels for Separation, Sensing, and Biomedical Applications. Advanced Functional Materials, 2021, 31, 2104164.	14.9	29
18	Design and in situ biosynthesis of precision therapies against gastrointestinal pathogens. Current Opinion in Physiology, 2021, 23, 100453.	1.8	3

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19	Quantitative Yeastâ€“Yeast Two Hybrid for the Discovery and Binding Affinity Estimation of Proteinâ€“Protein Interactions. ACS Synthetic Biology, 2021, 10, 505-514.	3.8	17
20	Purification of polyclonal immunoglobulin G from human serum using peptideâ€based adsorbents. AICHE Journal, 2021, 67, e17482.	3.6	1
21	Targeted capture of Chinese hamster ovary host cell proteins: Peptide ligand binding by proteomic analysis. Biotechnology and Bioengineering, 2020, 117, 438-452.	3.3	13
22	Peptide science: A â€œrule modelâ€•for new generations of peptidomimetics. Acta Biomaterialia, 2020, 102, 35-74.	8.3	24
23	Plateletâ€rich plasma lysate displays antibiofilm properties and restores antimicrobial activity against synovial fluid biofilms in vitro. Journal of Orthopaedic Research, 2020, 38, 1365-1374.	2.3	27
24	Packing density, homogeneity, and regularity: Quantitative correlations between topology and thermoresponsive morphology of PNIPAM-co-PAA microgel coatings. Applied Surface Science, 2020, 508, 145129.	6.1	8
25	Novel peptoid-based adsorbents for purifying IgM and IgG from polyclonal and recombinant sources. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2020, 1137, 121909.	2.3	5
26	Chromatographic assay to probe the binding energy and mechanisms of homologous proteins to surface-bound ligands. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2020, 1136, 121927.	2.3	4
27	Nonwoven fiber mats with thermo-responsive permeability to inorganic and organic electrolytes. Journal of Membrane Science, 2020, 616, 118439.	8.2	11
28	Chitosan Hydrogels for Synergistic Delivery of Chemotherapeutics to Triple Negative Breast Cancer Cells and Spheroids. Pharmaceutical Research, 2020, 37, 142.	3.5	8
29	Exploring the physicochemical and morphological properties of peptideâ€hybridized dendrimers (<scp>DendriPeps</scp>) and their aggregates. Journal of Polymer Science, 2020, 58, 2234-2247.	3.8	2
30	Dual-Affinity Ratiometric Quenching (DARQ) Assay for the Quantification of Therapeutic Antibodies in CHO-S Cell Culture Fluids. Analytical Chemistry, 2020, 92, 16274-16283.	6.5	6
31	Discovery of Membrane-Permeating Cyclic Peptides via mRNA Display. Bioconjugate Chemistry, 2020, 31, 2325-2338.	3.6	9
32	Isolation of Chemically Cyclized Peptide Binders Using Yeast Surface Display. ACS Combinatorial Science, 2020, 22, 519-532.	3.8	15
33	A multiscale coarse-grained model to predict the molecular architecture and drug transport properties of modified chitosan hydrogels. Soft Matter, 2020, 16, 10591-10610.	2.7	13
34	Use of Target-Displaying Magnetized Yeast in Screening mRNA-Display Peptide Libraries to Identify Ligands. ACS Combinatorial Science, 2020, 22, 738-744.	3.8	7
35	Affibody-Binding Ligands. International Journal of Molecular Sciences, 2020, 21, 3769.	4.1	23
36	Highly Efficient 1-Octene Hydroformylation at Low Syngas Pressure: From Single-Droplet Screening to Continuous Flow Synthesis. ACS Catalysis, 2020, 10, 7535-7542.	11.2	26

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37	Photoinduced reconfiguration to control the protein-binding affinity of azobenzene-cyclized peptides. Journal of Materials Chemistry B, 2020, 8, 7413-7427.	5.8	17
38	Modified gaphene oxide (GO) particles in peptide hydrogels: a hybrid system enabling scheduled delivery of synergistic combinations of chemotherapeutics. Journal of Materials Chemistry B, 2020, 8, 3852-3868.	5.8	22
39	Purification of animal immunoglobulin G (<scp>IgG</scp>) using peptoid affinity ligands. Biotechnology Progress, 2020, 36, e2994.	2.6	6
40	Past, Present, and Future of Affinity-based Cell Separation Technologies. Acta Biomaterialia, 2020, 112, 29-51.	8.3	42
41	Novel peptide ligands for antibody purification provide superior clearance of host cell protein impurities. Journal of Chromatography A, 2020, 1625, 461237.	3.7	21
42	Tailoring the Chemical Modification of Chitosan Hydrogels to Fine-Tune the Release of a Synergistic Combination of Chemotherapeutics. Biomacromolecules, 2019, 20, 3126-3141.	5.4	25
43	Multiplexed Competitive Screening of One-Bead-One-Component Combinatorial Libraries Using a ClonePix 2 Colony Sorter. International Journal of Molecular Sciences, 2019, 20, 5119.	4.1	11
44	DendriPeps: Expanding Dendrimer Functionality by Hybridizing Poly(amidoamine) (PAMAM) Scaffolds with Peptide Segments. Macromolecular Rapid Communications, 2019, 40, 1900325.	3.9	6
45	Translating antibody-binding peptides into peptoid ligands with improved affinity and stability. Journal of Chromatography A, 2019, 1602, 284-299.	3.7	17
46	Affordable Microfluidic Bead-Sorting Platform for Automated Selection of Porous Particles Functionalized with Bioactive Compounds. Scientific Reports, 2019, 9, 7210.	3.3	15
47	Targeted Capture of Chinese Hamster Ovary Host Cell Proteins: Peptide Ligand Discovery. International Journal of Molecular Sciences, 2019, 20, 1729.	4.1	28
48	Screening Yeast Display Libraries against Magnetized Yeast Cell Targets Enables Efficient Isolation of Membrane Protein Binders. ACS Combinatorial Science, 2019, 21, 817-832.	3.8	20
49	Discovery and Evaluation of Peptide Ligands for Selective Adsorption and Release of Cas9 Nuclease on Solid Substrates. Bioconjugate Chemistry, 2019, 30, 3057-3068.	3.6	16
50	Treating Tumors at Low Drug Doses Using an Aptamerâ€“Peptide Synergistic Drug Conjugate. Angewandte Chemie, 2019, 131, 1451-1455.	2.0	7
51	Optimization of Sequence, Display, and Mode of Operation of IgG-Binding Peptide Ligands to Develop Robust, High-Capacity Affinity Adsorbents That Afford High IgG Product Quality. International Journal of Molecular Sciences, 2019, 20, 161.	4.1	17
52	Treating Tumors at Low Drug Doses Using an Aptamerâ€“Peptide Synergistic Drug Conjugate. Angewandte Chemie - International Edition, 2019, 58, 1437-1441.	13.8	41
53	Purification of human erythropoietin by affinity chromatography using cyclic peptide ligands. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1085, 1-12.	2.3	22
54	Quantum dot enabled lateral flow immunoassay for detection of cardiac biomarker NT-proBNP. Sensing and Bio-Sensing Research, 2018, 21, 46-53.	4.2	36

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55	Design, selection, and development of cyclic peptide ligands for human erythropoietin. Journal of Chromatography A, 2017, 1500, 105-120.	3.7	22
56	A hyaluronic acid conjugate engineered to synergistically and sequentially deliver gemcitabine and doxorubicin to treat triple negative breast cancer. Journal of Controlled Release, 2017, 267, 191-202.	9.9	70
57	DAFODIL: A novel liposome-encapsulated synergistic combination of doxorubicin and 5FU for low dose chemotherapy. Journal of Controlled Release, 2016, 229, 154-162.	9.9	52
58	Design of protease-resistant peptide ligands for the purification of antibodies from human plasma. Journal of Chromatography A, 2016, 1445, 93-104.	3.7	39
59	Low-molecular-weight polymerâ€“drug conjugates for synergistic anticancer activity of camptothecin and doxorubicin combinations. Nanomedicine, 2016, 11, 1139-1151.	3.3	46
60	De Novo Design of Skinâ€Penetrating Peptides for Enhanced Transdermal Delivery of Peptide Drugs. Advanced Healthcare Materials, 2016, 5, 602-609.	7.6	43
61	Reversible Cyclic Peptide Libraries for the Discovery of Affinity Ligands. Analytical Chemistry, 2013, 85, 9229-9237.	6.5	31
62	mRNA display selection and solidâ€phase synthesis of Fcâ€binding cyclic peptide affinity ligands. Biotechnology and Bioengineering, 2013, 110, 857-870.	3.3	74
63	Peptide-Based Affinity Adsorbents with High Binding Capacity for the Purification of Monoclonal Antibodies. Industrial & Engineering Chemistry Research, 2013, 52, 8800-8811.	3.7	24
64	The hidden potential of small synthetic molecules and peptides as affinity ligands for bioseparations. Pharmaceutical Bioprocessing, 2013, 1, 467-485.	0.8	22
65	Alkaline-stable peptide ligand affinity adsorbents for the purification of biomolecules. Journal of Chromatography A, 2012, 1245, 55-64.	3.7	31
66	Process for purification of monoclonal antibody expressed in transgenic Lemna plant extract using dextran-coated charcoal and hexamer peptide affinity resin. Journal of Chromatography A, 2012, 1260, 61-66.	3.7	34
67	Purification of polyclonal antibodies from <scp>C</scp>ohn fraction II + III, skim milk, and whey by affinity chromatography using a hexamer peptide ligand. Journal of Separation Science, 2012, 35, 3139-3148.	2.5	33
68	Performance of hexamer peptide ligands for affinity purification of immunoglobulin G from commercial cell culture media. Journal of Chromatography A, 2011, 1218, 1691-1700.	3.7	95